Recombinant Human PCDHA13 Protein, His-tagged

Cat. No. PCDHA13-1908H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCDHA13 Protein (Ile328-Gln480) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile328-Gln480
Description	This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20 kDa Accurate Molecular Mass: 20 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PCDHA13 protocadherin alpha 13 [Homo sapiens (human)]
Official Symbol	PCDHA13
Synonyms	PCDHA13; protocadherin alpha 13; CNR5; CNRN5; CNRS5; CRNR5; PCDH-ALPHA13; protocadherin alpha-13; KIAA0345-like 1; PCDH-alpha-13; ortholog of mouse CNR5

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Gene ID	56136
mRNA Refseq	NM_018904
Protein Refseq	NP_061727
MIM	606319
UniProt ID	Q9Y5I0

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